

Sketch book of W. A. Johnson (1816-80), given by his son, Dr. A. J. Johnson to Harvey Cushing & by him to the Yale Library. W.L.C.

24 leaves of colored sketches 1 May, 1865 - 19 July, 1869.

Boston May 1/65

*Dicentra*  
(Drechmann)  
Brueckner.



Pristiloma  
May 2 one half  
layer.

April, 1865



7/5/65



In the wood on  
Obeyens Creek,  
in piece spring on  
Title No. 797.

In the very open fields,  
meadows, flies 15 or 20 ft  
several again. not numerous.  
Does not alight long  
legs. Alights as it were  
cut short off.

*Dracontia nocturna*

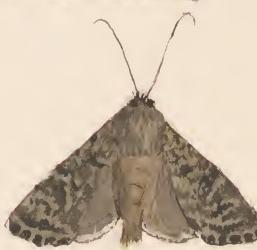
*Acer saccharinum*  
Sugar Maple  
May 16: 1865  
Wetin



Western  
Aug 10: 1864



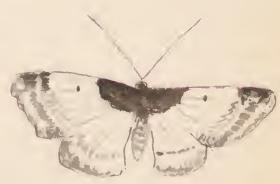
Aug<sup>t</sup> 12:



*Egrotis jaculifera*

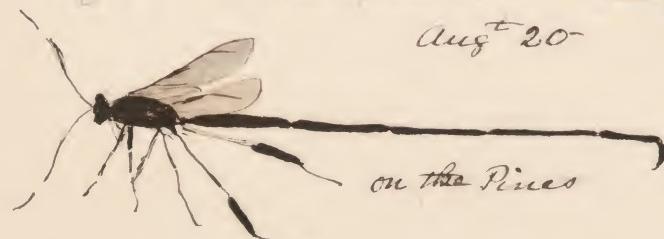
*Egrotis tristis?*

Aug<sup>t</sup> 13



*Ochrophilidae*

♂ ♀



on the Pines



front legs yellowish white.



Very numerous, have a kind of tail & difficult to represent intended for the same as the other 2,

Wester.  
Aug<sup>st</sup> 30: 1864.

on the Hops



*Dacodes  
archippeus.*

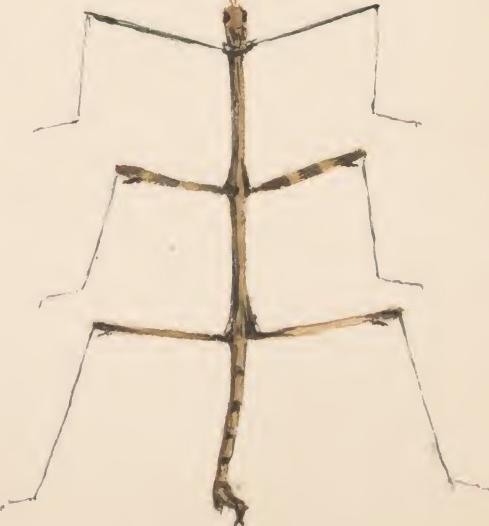


*Clytus flexuosus*  
Sep<sup>tember</sup> 20, 1864.

on the Golden Rod.  
*Lycium vulgare*



on apple  
caterpillar of the bark  
& leaves



Phasmid

Aug<sup>r</sup> 22: 1864

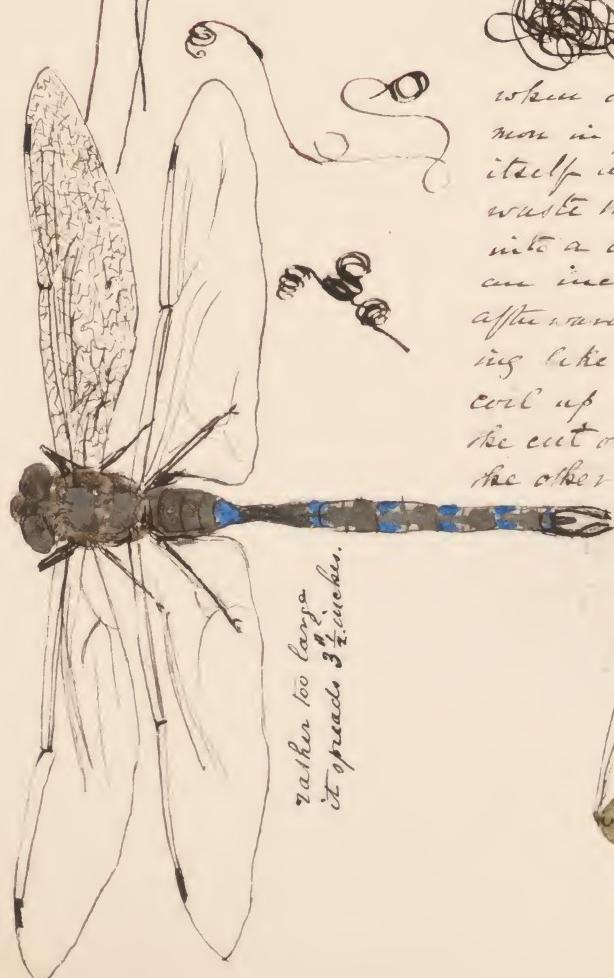


Light brown with fine golden shot.  
on all the wings of very long  
legs.

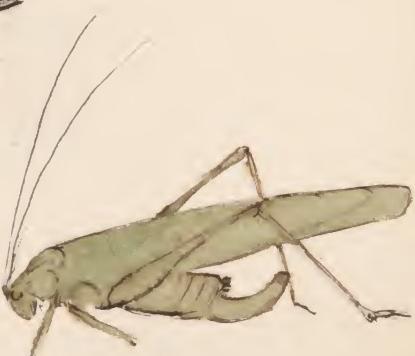


arctia virgo?  
or Sandbach

Harris 344



A the tail. B. head magnified.  
a velvet brown worm,  
when extended 6 inches long, com-  
mon in pools of still water. It rolls  
itself at times like a little roll of  
waste bread. ♀ in a saucer, roll up  
into a close ball. Snip off one  $\frac{1}{8}$  of  
an inch of the head & tail, 24 hours  
afterwards the worm seemed to be feed-  
ing like the other, but they did not  
curl up together, stayed separate &  
the cut one is curled much closer than  
the other.



Katy did.  
Aug<sup>r</sup>. 28 -

Wester, 4/4/65.

Very delicate shades of brown  
always difficult to imitate.  
size of legs. - Left foot too large.  
Canadian Robin.



Wester 15/4/65.



April 27.  
1865.



Dark & copper  
Copper underneath.  
Elator.



Chalcolepidius  
virginea

Weston 20/3/65.  
Grasshopper.



Parasite of tone. mag. with much  
objection.



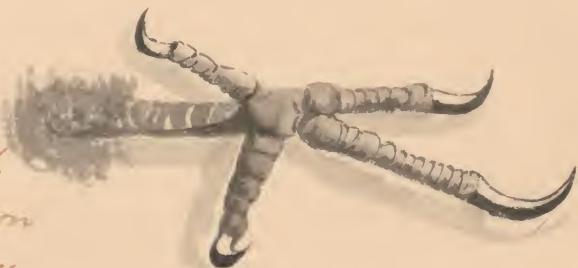
Parasite &acarus  
of the Tone-bit or Chick-a-dee

a species of  
*Liotheum* See  
Micro. Die pg 397. Editio 186.



Cock of the woods.  
Size of life 18th.

This woodpecker  
has the power of protruding  
its tongue 8 or 9 inches beyond  
the extremity of the beak, and on  
the end of the tongue is a horny  
substance which is hardened  
especially to hold cutworms and  
other insects.



Weston Chelifer (Canceroides?)

Scari, caught on an  
*Elator occidentalis*, Aug 1. 1865

With 1 in objective &  
camera lucida.



With one inch objective  
& tinted glass, reversing the object.



They run very fast & hold on under the  
edges of the Elytra, strong teeth, large claws,  
double hooklets & on the feet 8-feet dark  
reddish brown colour.



form of  
a sort of Proleg



I nat. size.

18/3/05.

A podura or springtail.  
in the Number during a  
pestil. It has a curious  
sort of proleg. Magnified  
with one inch objective.



See notes page 55.

General appearance  
Mag. 100 or 200 times.

No. 1.



In full size

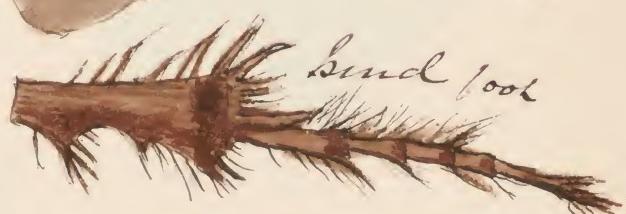
Elytron (Marked roshiped)  
Call over



Markings of Elytron  
Mag. with  $\frac{1}{4}$  inch.



Front leg



End foot



Antenna

Weston 30/3/65.

Magnified with Nickels  
except no 1.  
See note page 35.

Wester 12/4/65.



out of maple. are  
active borer with very  
cylindrical body 12  
compartments & 2  
very strong & pointed  
teeth ~~top~~ other  
part of the head is  
dented - . . .



Revina beetle.



15/4/65  
Wester



A granum

Beetles about  
three the size of life.

acarus mag.  
of Muskrat  
with 1 in. obj.



Weston  
6/4/65  
See notes pg 36

tail

head of a Diptera about  $\frac{1}{8}$  long.

D  
balancers

Anal canal  
exserted.

Head very dark - no eyes apparently.  
smaller intestines &c behind the head  
Larger intestine filled with seeds  
or spores of algae. Large trachea on each side of the intestine  
terminating at the tail, with very thick brushes at the end of the body.  
Trachea colored red.

mag. with  
1 inch obj.

brushes





25/7/69

R. C. Belknap observed me

These in straw of barley the barley  
is pierced & twisted at the 2<sup>nd</sup> or 3<sup>rd</sup>  
joint. the insect is only about the  $\frac{1}{16}$   
of an inch or less. - Having 8 spiracles  
on each side. The mouth appears to  
be situated on the under side, with  
two very sharp pointed teeth. no appear-  
ance of legs or feet. Body thick with  
fatty matter except at the two ends  
colour whitish. tail end simply  
rounded. The barley came  
from. Rimbey. C.C.



*Chitonus* Mouth of aquatic larva  
Totem Aug. 8<sup>th</sup> in R.R. rock near Mr. Hollings,  
deep in the mud, covered with algae

size about 1 inch

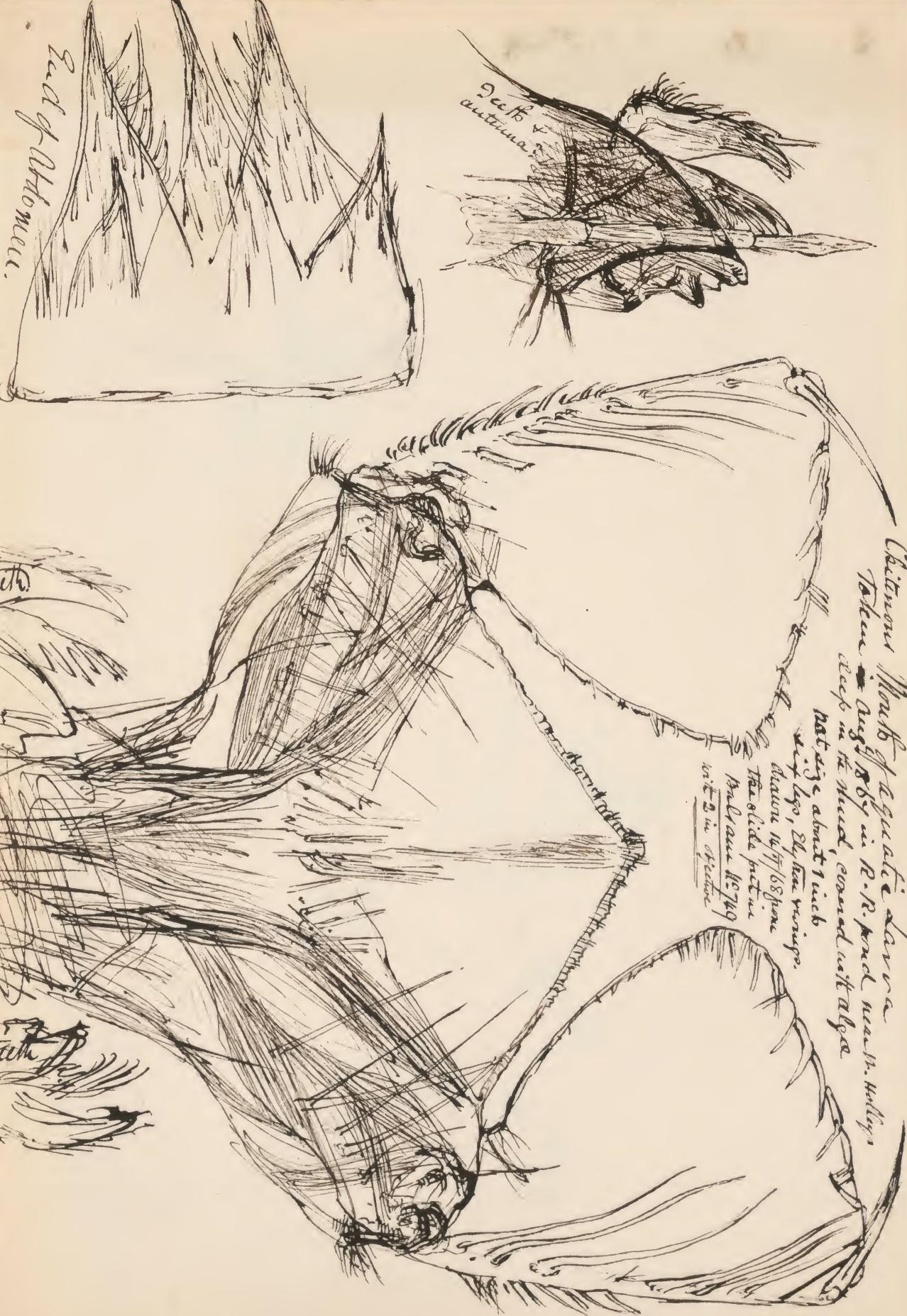
size 40, 24 mm wings.

drawn 14/7/68 from

the slide picture

Bullock No 749

size 2 in diameter



Mitella on White Pine



(Weston.)  
27/3/65.  
See notes pg. 33.

I nat.  
size.  
larva of  
mitella.



Magnified in the  $\frac{1}{4}$  inch  
to show the mouth.



one on hollow twigs.

47 holes.

Weston,  
Sep<sup>r</sup> 26: 1864



*Diosphila lineata*



Oct<sup>r</sup> - 8, 1864

Nov<sup>r</sup> - 2: 1864



a very delicate fragile  
silvery white or yellowish  
moth, flying upwards slowly.  
(The right wings ~~wrong~~)



Feb<sup>r</sup> - 25: 1865  
on the S. side  
of fence -  
*arctia isabella* (or *Isabella*)  
Harris pg. 355. (Digger Moth)

① nat size.

Parasite of Rat

28/2/65.

Magnified with 2 in obj.



A Head

B. Claws

C. Sting or piercer

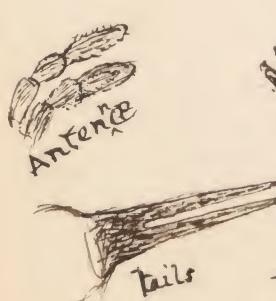
{ with  $\frac{1}{4}$ "  
objective.

② nat size.

Spring tails

Podura ? or

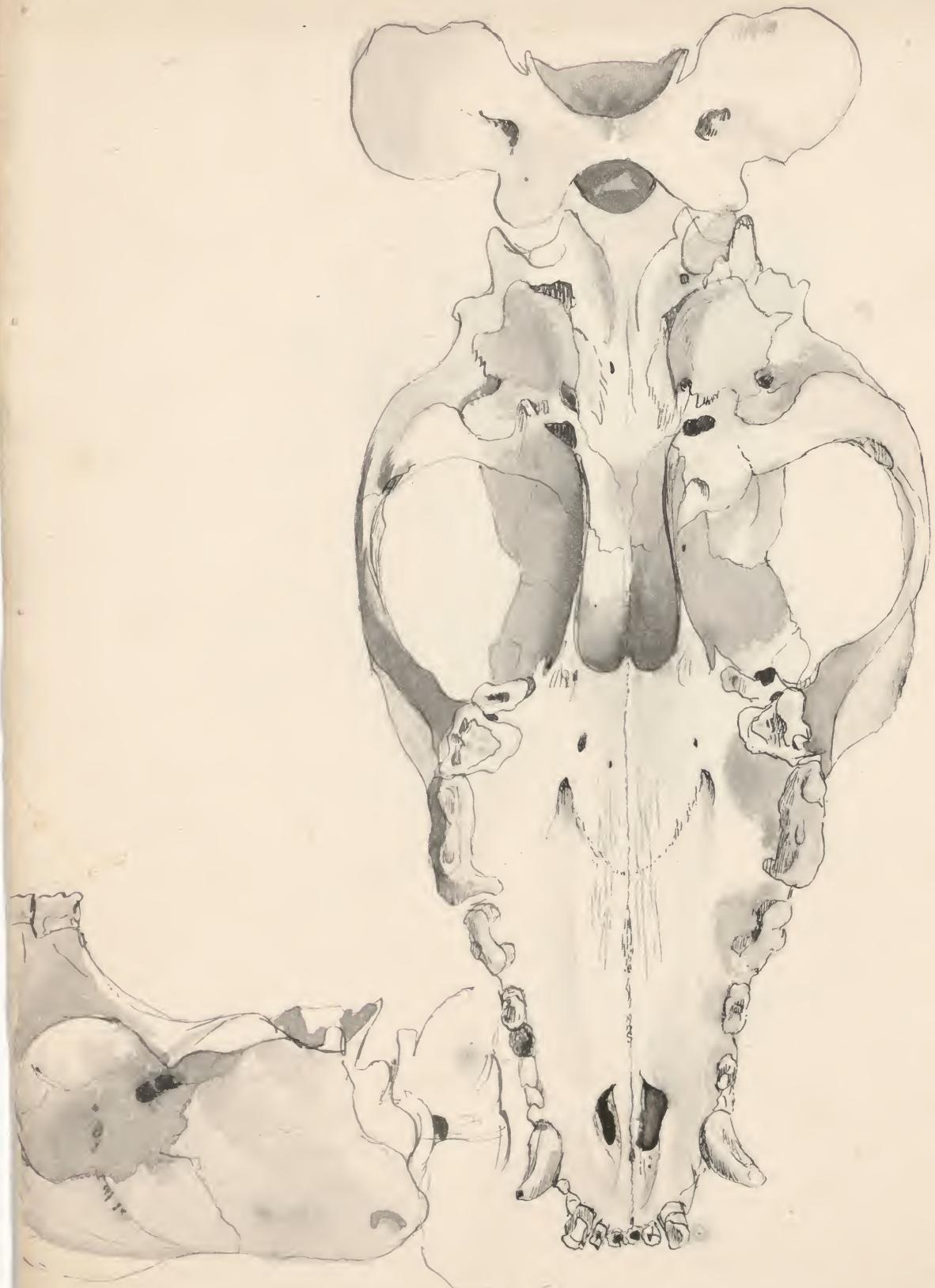
Snow fleas, 27/2/65. made their appear-  
ance on the 18<sup>th</sup> Feb<sup>r</sup>.



Wistaria, May 3, 1855  
on the Phlox subulata  
in the dusk of the evening.



Chrysalis of the Polyphemus  
made of leaves drawn together









Outer skin of  
mangled to show  
the gland, duct  
and lungs.

Common Adder

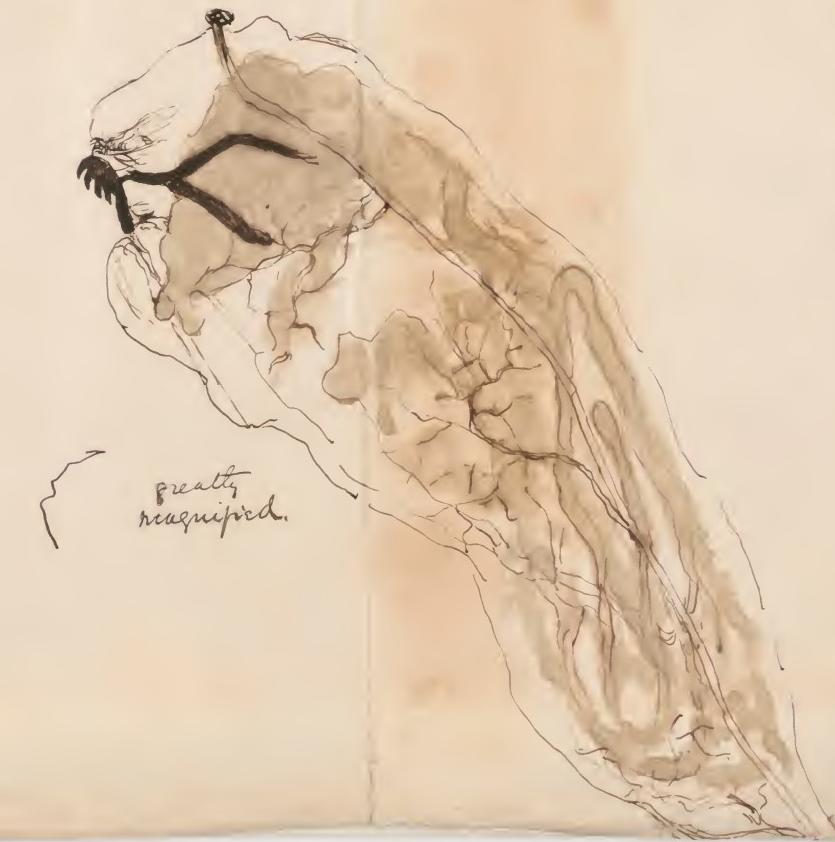


1) one inch objec.  
2)

1)



2)



① Nat. size

a kind of worm living visible  
cabbage leaves Aug 4: 1863. It cuts la-  
terally with the saw, feeds with the  
mouth above it. vis filled with chlorophyl  
the light green indicates stomach & in-  
testines. The remainder is muscle

Wash. Feb<sup>9</sup> 1869

Wasps nest.

cells are lined & spayed with  
white. the real brown, taken  
from surfaces of wood,  
found T-



Natural  
size



at one-fifth  
natural size

found hanging  
in a tree, bent  
in half. the entrance  
is at the bottom.